

## M 7.1, 72 km ENE of Namie, Japan

Origin Time: 2021-02-13 14:07:48 UTC (Sat 23:07:48 local)

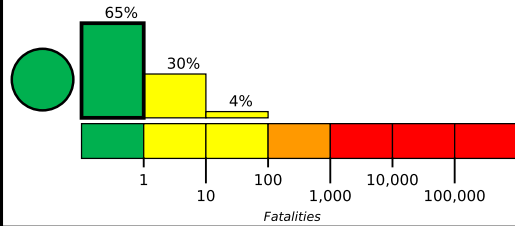
Location: 37.7202° N 141.7616° E Depth: 35.0 km

FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

PAGER  
Version 5

Created: 10 hours, 14 minutes after earthquake

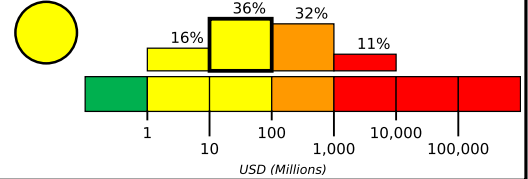
### Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Japan. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

### Estimated Economic Losses

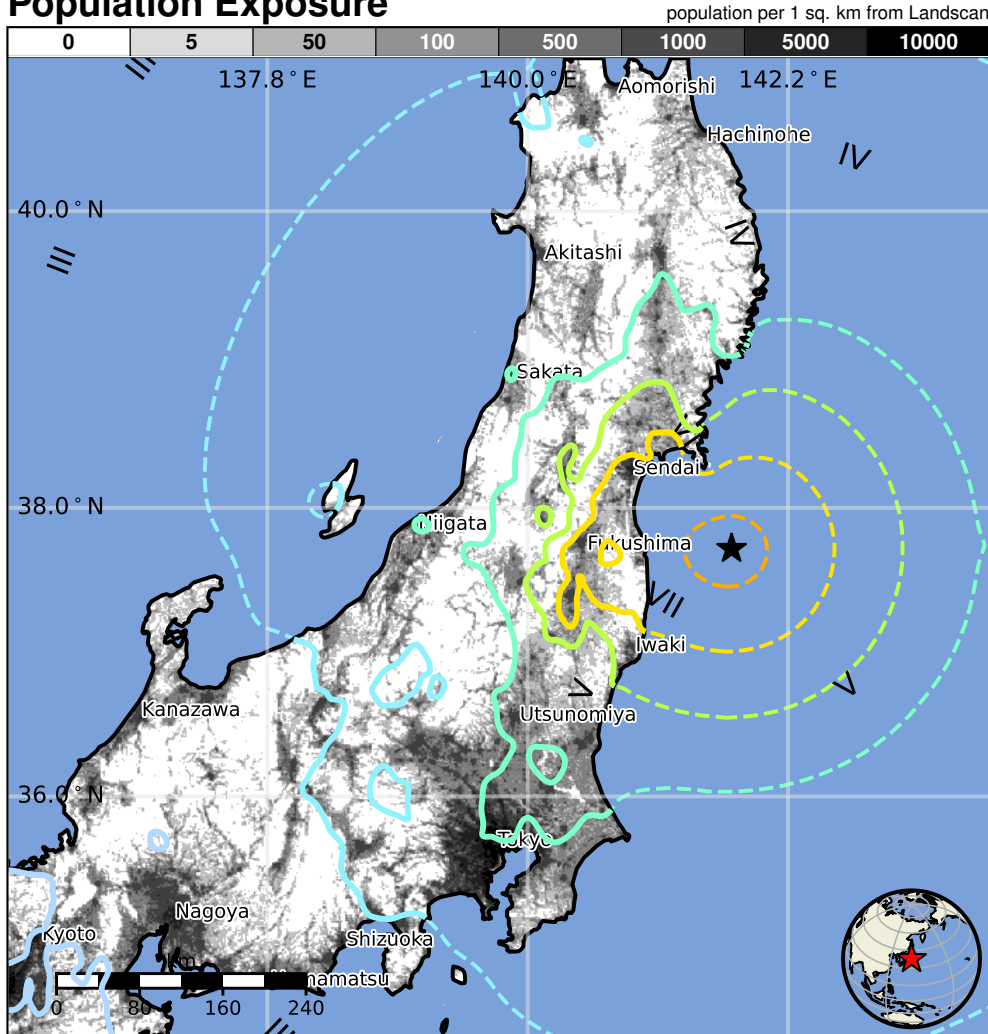


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	29,290k*	35,678k*	15,603k	1,604k	2,663k	1k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-08-08	345	5.6	VII(7k)	1
1987-12-17	287	6.5	VII(8,018k)	2
1983-05-26	383	7.7	VII(174k)	104

Recent earthquakes in this area have caused secondary hazards such as tsunamis, landslides and fires that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Iwanuma	42k
VII	Namie	22k
VII	Watari	36k
VII	Fukushima	294k
VII	Koriyama	341k
VII	Hobaramachi	25k
V	Saitama	1,193k
IV	Tokyo	8,337k
IV	Yokohama	3,574k
III	Nagoya	2,191k
III	Kyoto	1,460k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000dher#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000dher